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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/635,616	08/07/2003	Horst-Dieter Fischer	010408.52553US	9593	
23911 7	08/05/2005	•	EXAMINER		
CROWELL & MORING LLP			CAMBY, RICHARD M		
INTELLECTUAL PROPERTY GROUP P.O. BOX 14300			ART UNIT	PAPER NUMBER	
WASHINGTO	WASHINGTON, DC 20044-4300			3661	
			DATE MAILED: 08/05/2003	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/635,616	FISCHER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Richard M. Camby	3661			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	_•				
2a) This action is <b>FINAL</b> . 2b) ⊠ This					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4) Claim(s) 7-30 is/are pending in the application.					
4a) Of the above claim(s) is/are withdraw	vn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>7-30</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	г.	•			
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the E	Examiner.			
Applicant may not request that any objection to the		* *			
Replacement drawing sheet(s) including the correcti	, , , , ,	• •			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the prior	•	ed in this National Stage			
application from the International Bureau	1 11	4			
* See the attached detailed Office action for a list	or the certified copies not receive	<b>0</b> .			
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:				

Application/Control Number: 10/635,616

Art Unit: 3661

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 7-26 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claims are directed to a mathematical algorithm or abstract idea without a practical application. See MPEP 2106. It is noted that the preamble to claim 1 is given no patentable weight as the elements recited there in are not referred to in the body of this method claim. The nominal recitation of "said solution" does not tie the preamble of the claim to the body of the claim in a manner that gives the claim statutory subject matter.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 7-30 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Shutte et al. '915.

Note column 4 that describes the linear optimization of thrusters on a spacecraft for fuel consumption.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard M. Camby whose telephone number is 703 308-2088. The examiner can normally be reached on Mon-Thurs 11:00 a.m.-8:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (703) 305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RICHARD M. CAMBY

PRIMARY EXAMINER